

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2005/000458A. CLASSIFICATION OF SUBJECT MATTER
IPC(7): G01N 1/28, C12M 1/34, C12Q 1/68, G01N 37/00, B01L 11/00, G01N 21/05

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G01N 1/28, C12M 1/34, C12Q 1/68, G01N 37/00, B01L 11/00, G01N 21/05 and keywords

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)
USPTO WEST, Questel Orbit/PLUSPAT - keywords: microfluidic, centrifuge, centrifugal, microscope, slide

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/35088A1 - Wang et al (New Mexico State University Technology Transfer Corporation) 17 May, 2001 (2001/05/17) Abstract page 3, lines 15 - 30 page 4, lines 5 - 7, 25 - 28	1 - 30, 33 - 35, 37 - 38, 40, 44, 49 - 50, 60 - 74, 76 - 77, 82 - 83, 88 - 89, 93 - 95, 99 - 100, 102, 111 - 119, 123, 126, 128 - 133, 137 & 140
Y	page 5, lines 11 - 15page 10, last paragraph page 13, line 9 page 14, lines 8 - 20 page 16, lines 4 - 24 page 19, second paragraph page 20, line 7 - page 24, line10 figures 1 - 4, 34, 35	36, 75 and 101 59, 92 103 - 110 138 - 139 141 - 143
X	WO 03/015923A1 - Adey et al (BioMicro Systems Inc.) 27 Feb., 2003 (2003/02/27) Abstract page 1, last paragraph page 3, line 14 - page 4, line 6 page 5, line 9 - page 6, line 25 page 7, line 23 - page 8, line 29 page 9, lines 9 - 21	1 - 8, 10 - 16, 18 - 20, 23 - 24, 29 - 30, 34, 37, 39 - 44, 47 - 50, 52, 60 - 67, 70 - 73, 76, 78 - 83, 86 - 89, 91, 93 - 99, 111, 113, 119 - 123, 125 - 127, 129 - 130, 136 & 137

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 22 June 2005 (22-06-2005)	Date of mailing of the international search report 12 July 2005 (12-07-2005)
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No.: 001(819)953-2476	Authorized officer Patrick Norman (819) 997-2156

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	page 11, lines 1 - 5 page 14, line 25 - page 15, line 22 Accompanying figures	53 - 58 59, 92
Y	US2002/0142470A1 - Clarke et al, 3 Oct., 2002 (2002/10/03) Abstract page 2, paragraph 0011 - page 5, paragraph 26 figures	103 - 108 138 - 139 141
Y	US6099803 - Ackley et al, (Nanogen Inc.) 8 Aug., 2000 (2000/08/08) Abstract col. 9, lines 50 - col. 10, line 27 col. 11, line 39 - col. 12, line 10	45 - 46, 84 - 85
Publications:		
Y	"A novel design on a CD disk for 2 point calibration measurement", Madou et al, Sensors and Actuators A, vol. 91(3), 2001, pages 301 - 306. Abstract page 301, second and fourth paragraphs figures 1 & 6	109 - 110 142 - 43
Y	"Electrokinetically controlled microfluidic analysis systems", Bousse et al, Annual review of biopsies and biomolecular structure, vol. 29, 2000, pages 155 - 181. page 161, last paragraph before "Silicon Devices" page 169, last paragraph figures 5 & 9	36, 75 and 101
A	"Fabrication of topologically complex three dimensional microfluidic systems in PDMS by rapid prototyping", Anderson et al, Analytical Chemistry, vol. 72, No. 14, July 15, 2000, pages 3158 - 3164).	all

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Information on patent family members

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